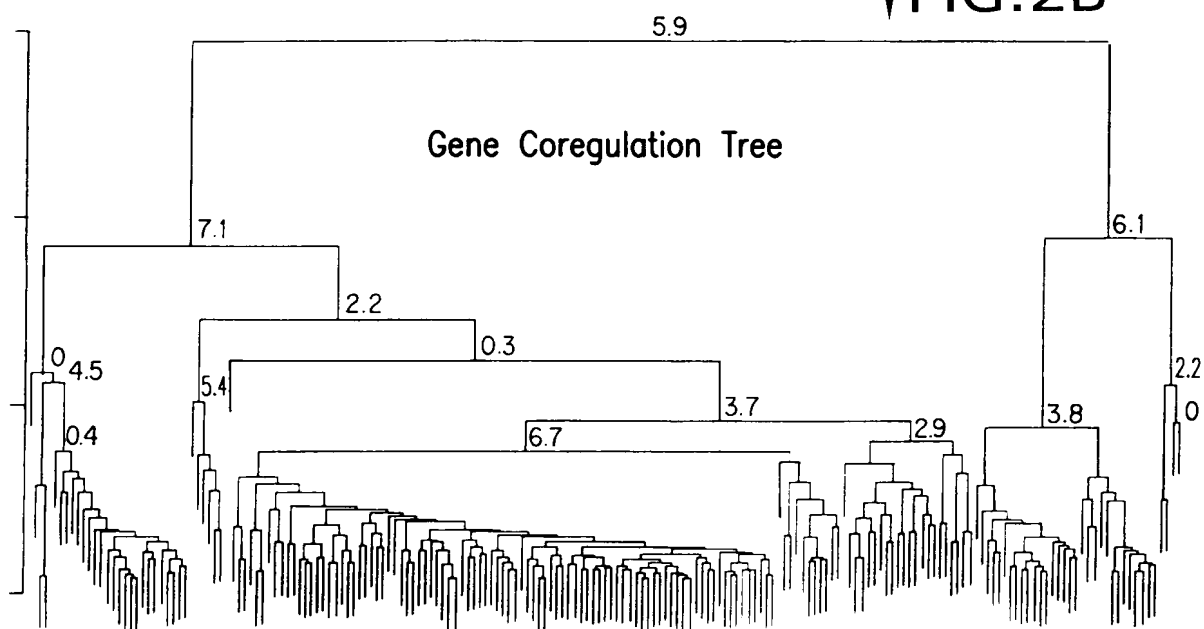
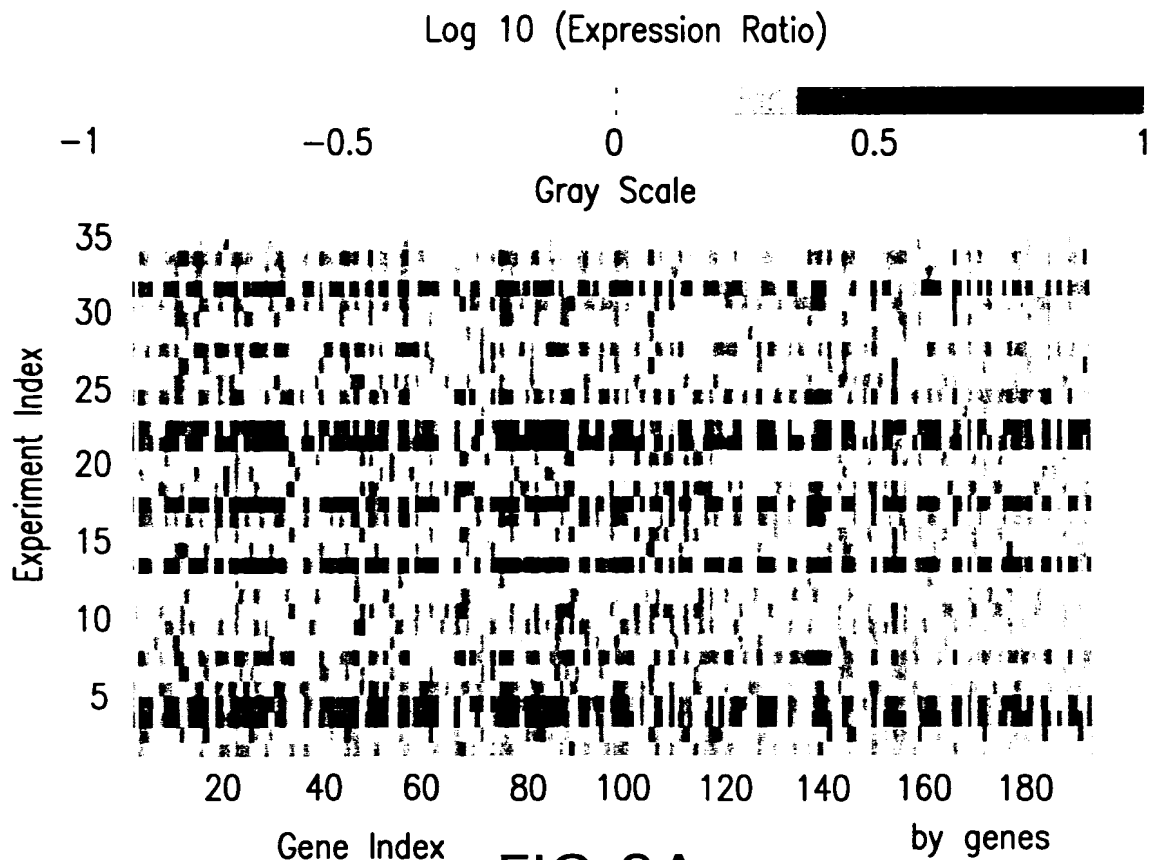


FIG.1



To
FIG.2C

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Docket: 9301-035-999
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 Inventor(s): Friend et al.
 Title: Methods of Characterizing Drug
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Log 10 (Expression Ratio)

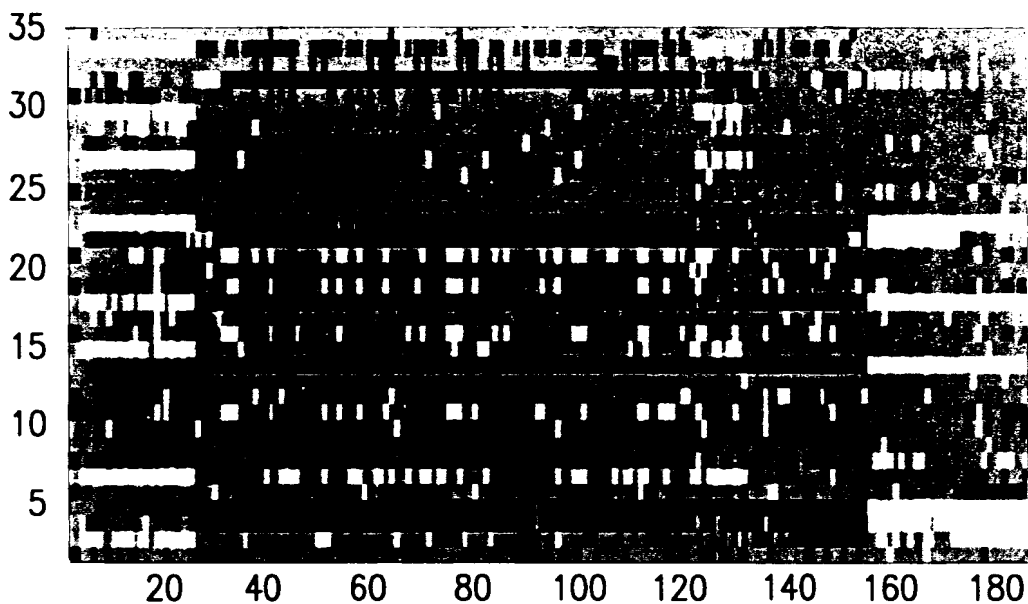
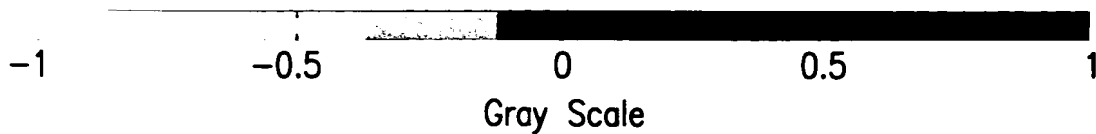


FIG. 2C

By
Experiment.
To
FIG. 2D

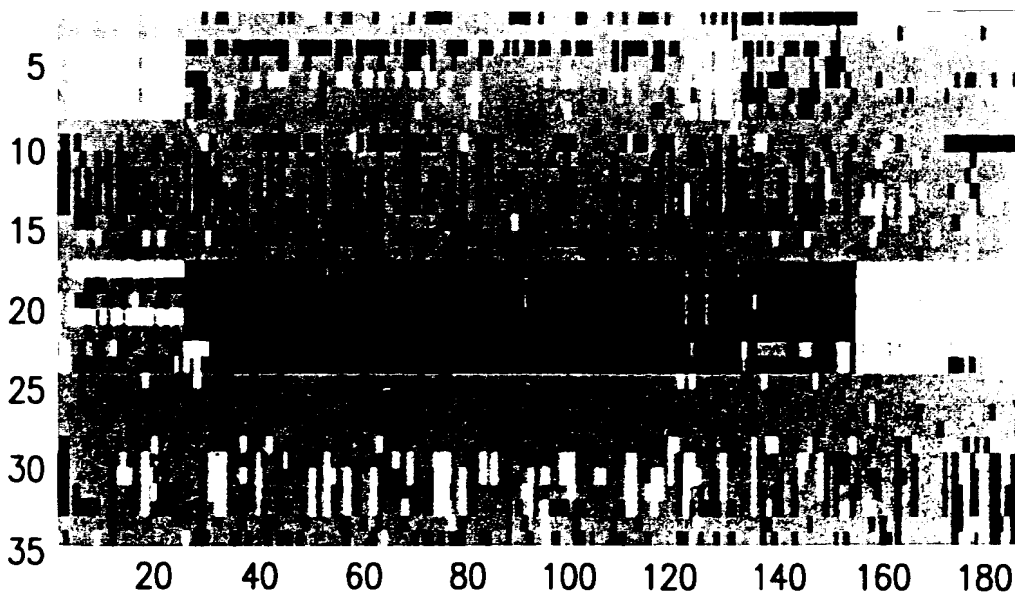


FIG. 2D

APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

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Serial No.: 09/220,142
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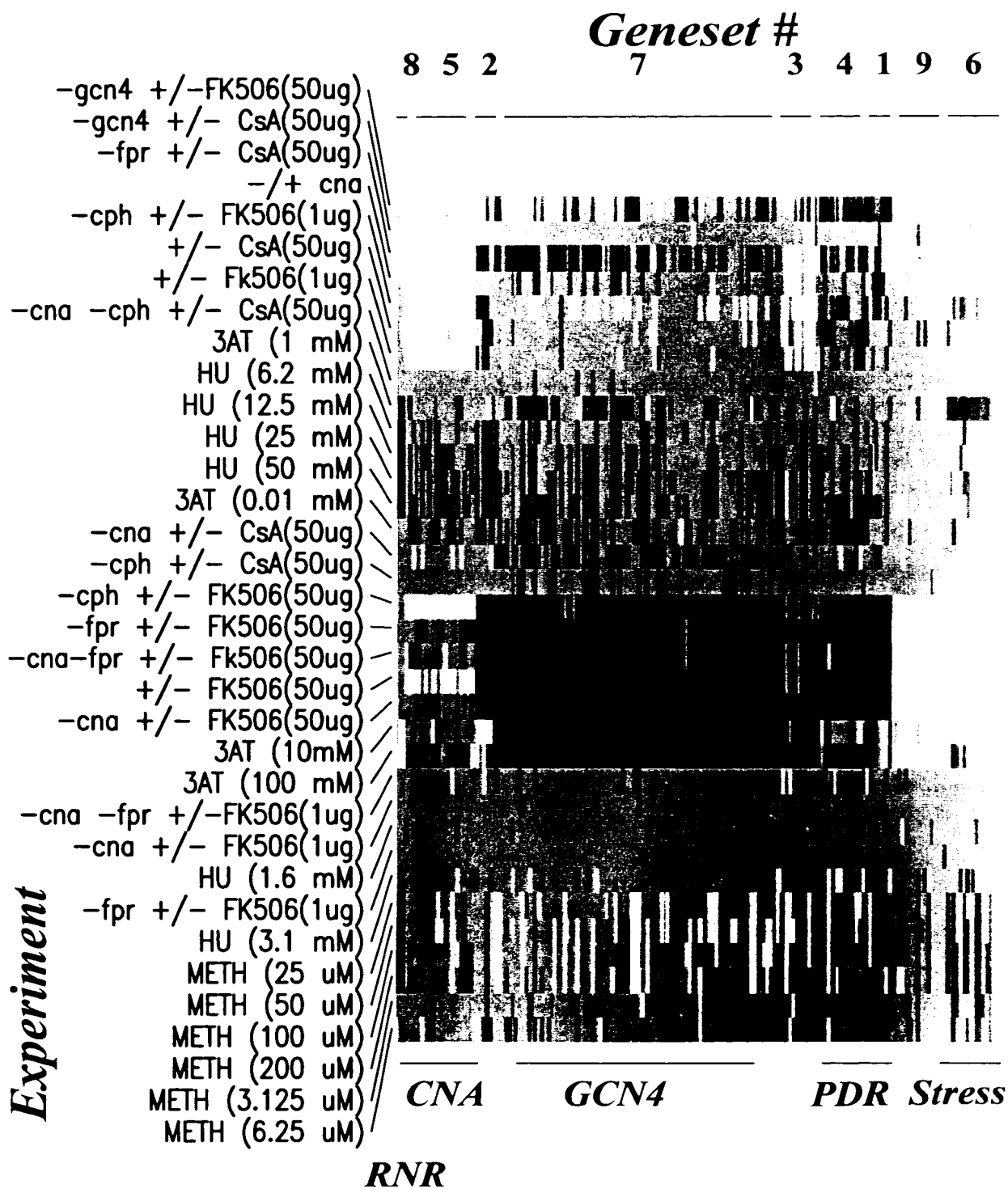


FIG.3

APPROVED	O G. FIG.	
BY	CLASS	SUBCLASS
DATE		

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 Serial No.: 09/220,142
 Inventor(s): Friend et al.
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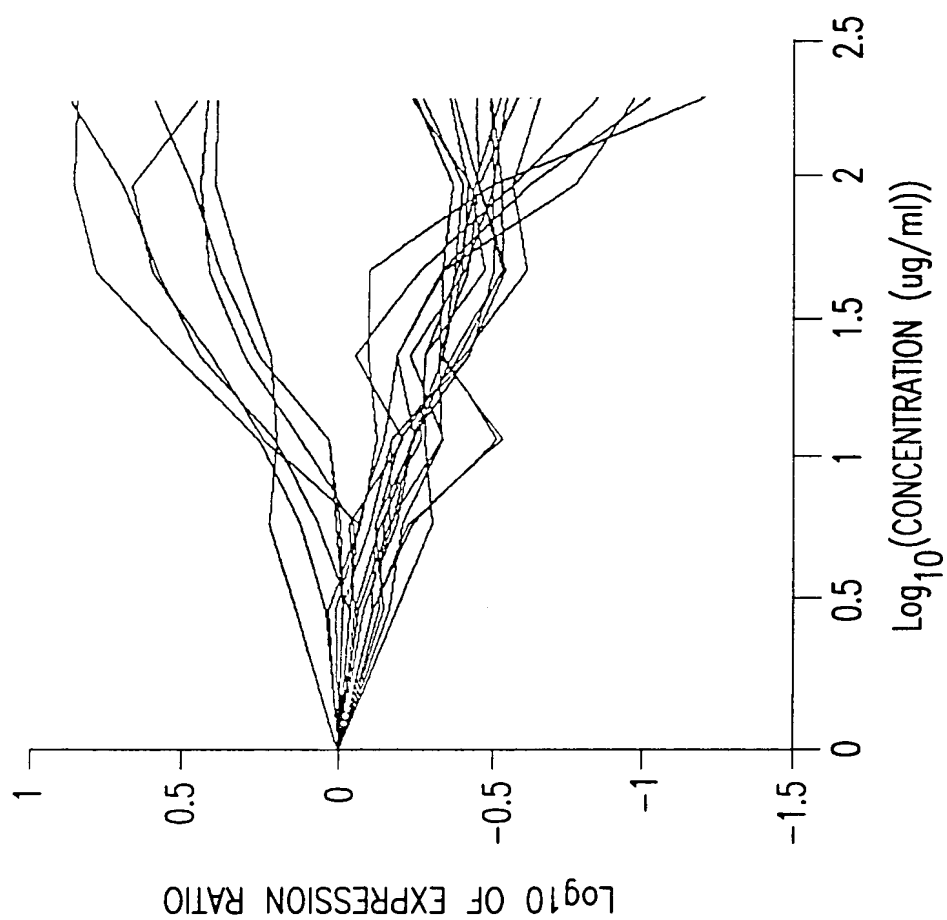


FIG.4

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Docket: 9301-035-999
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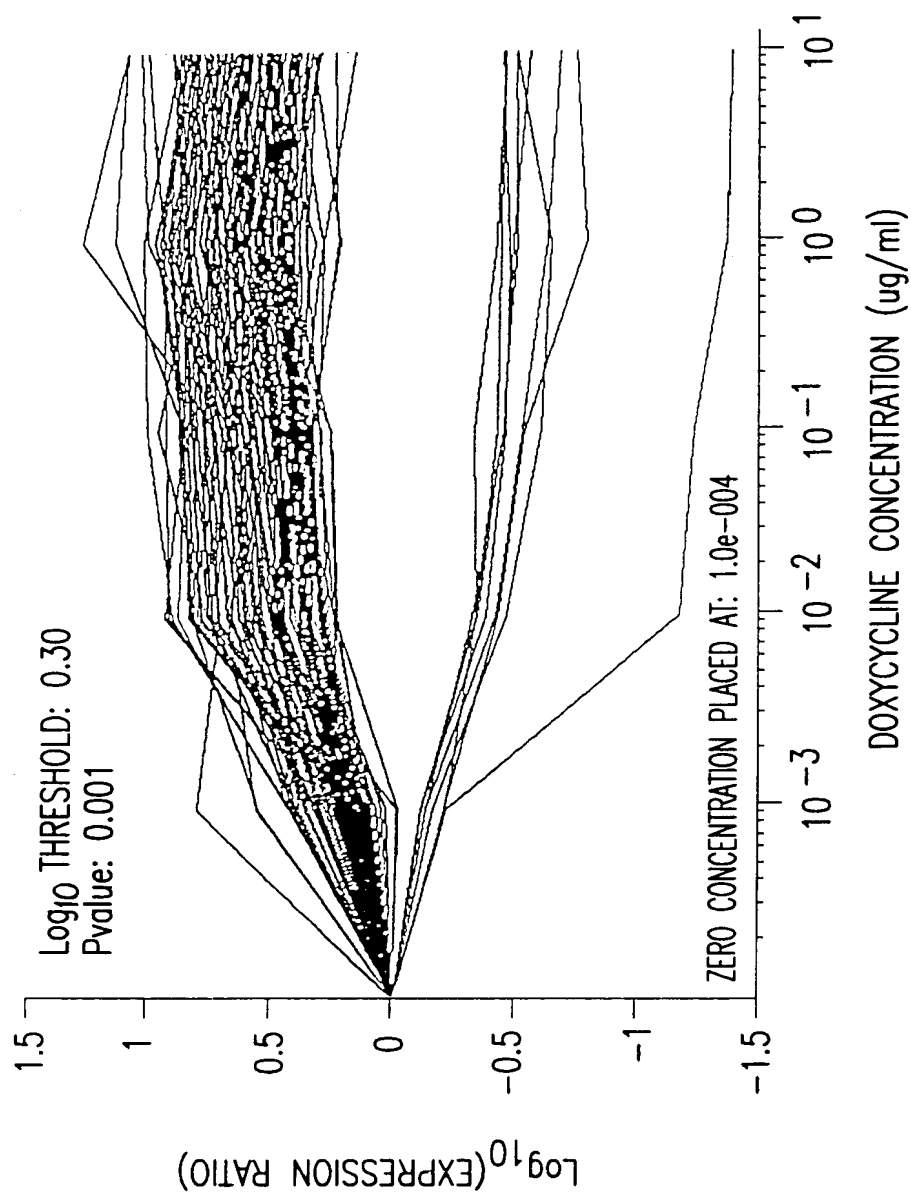


FIG.5

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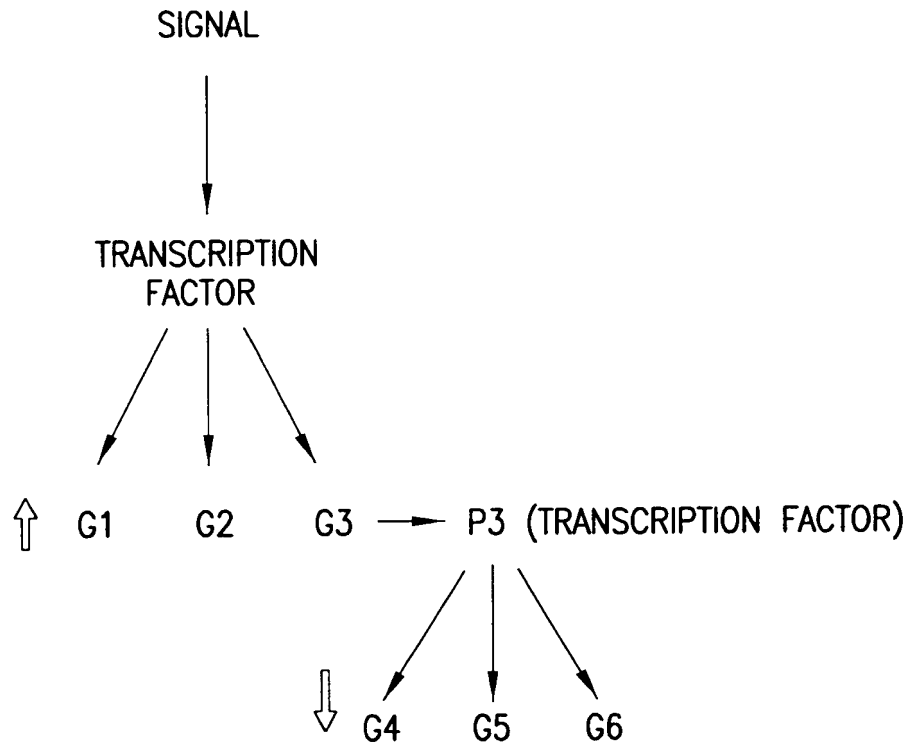


FIG.6

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BY	DATE	SIGNATURE

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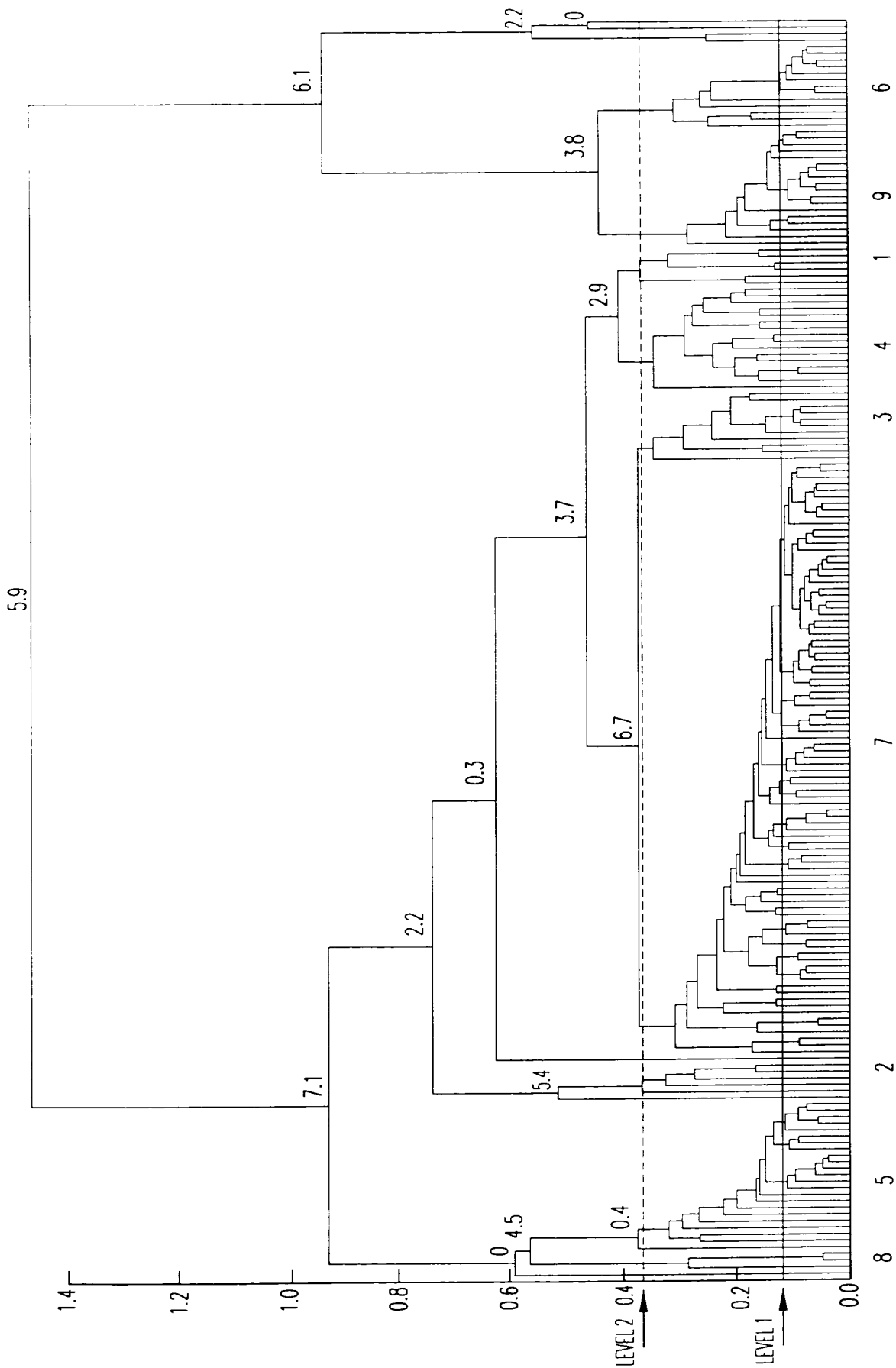


FIG.7

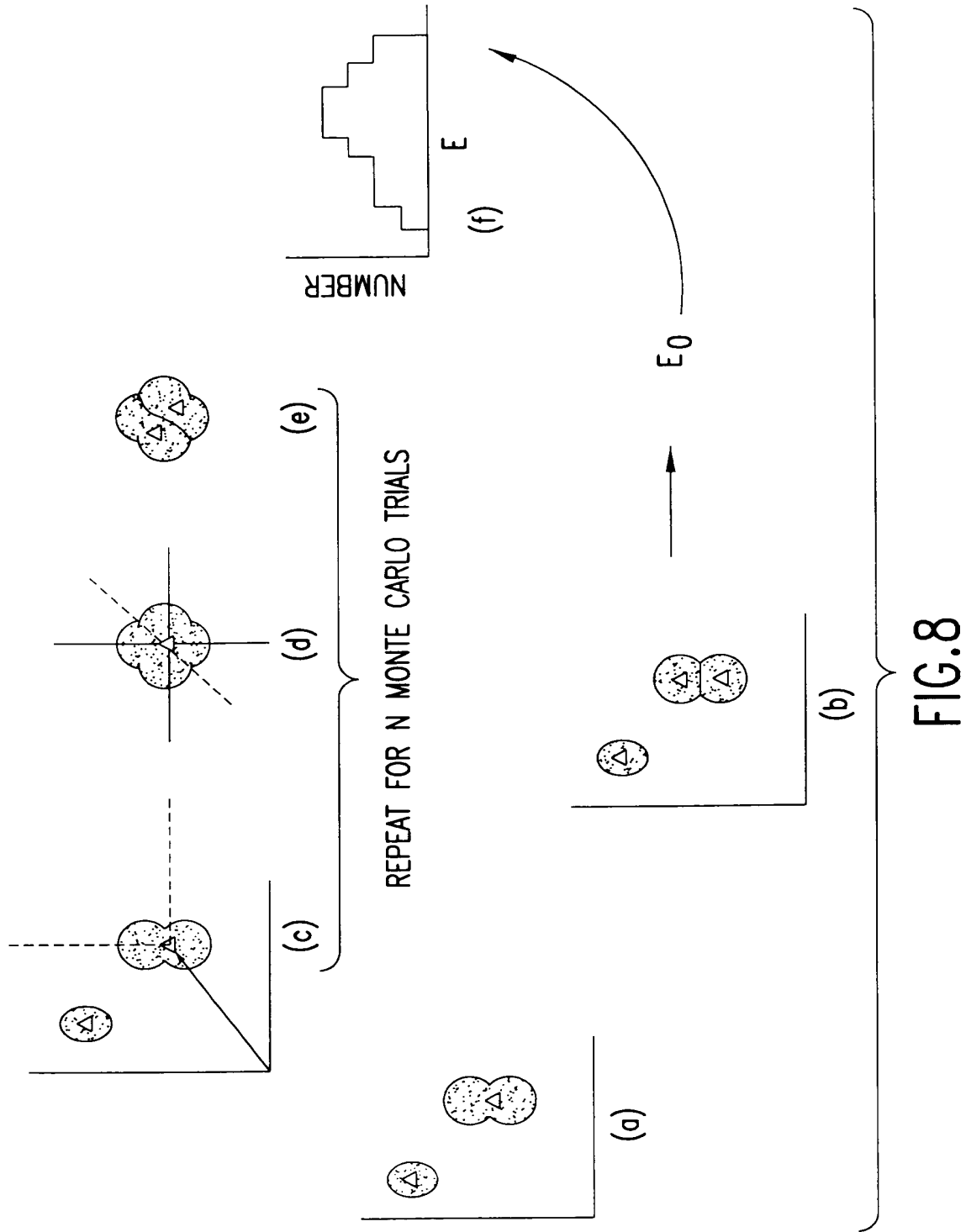


FIG. 9

```
graph TD
    PE[PERTURBATION EXPERIMENTS 901] -- INPUT --> P[PERTURBATION DATA TABLES 902]
    P -- CLUSTER ANALYSIS 903 --> G[GENESET DEFINITION (BASIS VECTOR) DATA TABLES 904]
    B[BIOLOGICAL PATHWAY DATA TABLES 905] -- REFINING GENESETS 906 --> G
    G -- REFINING BIOLOGICAL PATHWAY 907 --> B
    G -- BASIS VECTOR 909 --> PR((PROJECTING 910))
    PR -- 914 --> P
    PR -- 913 --> E[EXPRESSION PROFILE]
    E -- 911 --> PR
    PR -- 912 --> PEP[PROJECTED EXPRESSION PROFILE]
    PEP -- 908 --> DBMS[DATABASE MANAGEMENT SYSTEM]
    DBMS -- 913 --> E
```

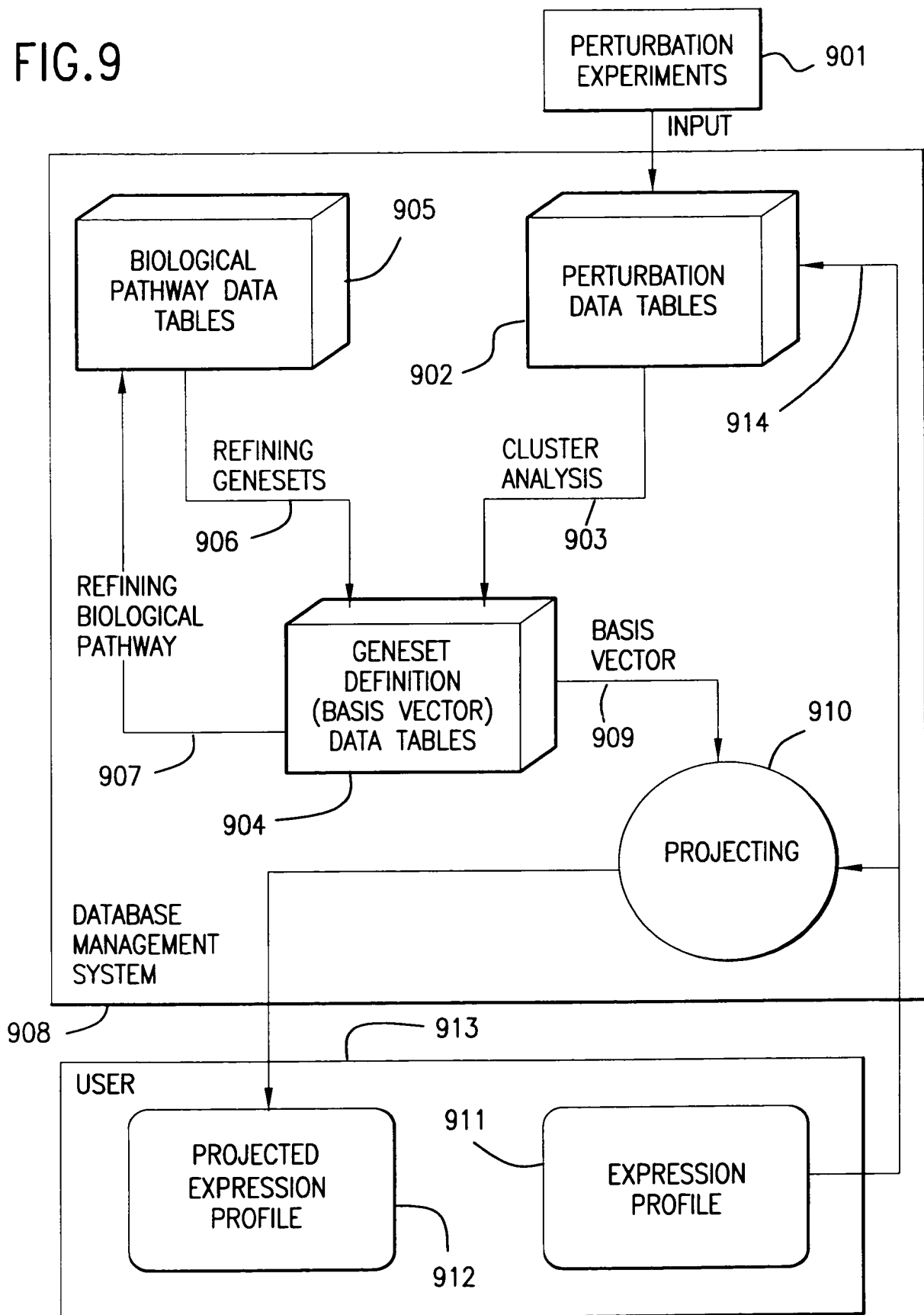
The flowchart illustrates the system architecture for projecting expression profiles. It is divided into three main sections: a top section for data input, a middle section for processing within a **DATABASE MANAGEMENT SYSTEM** (908), and a bottom section for user interaction.

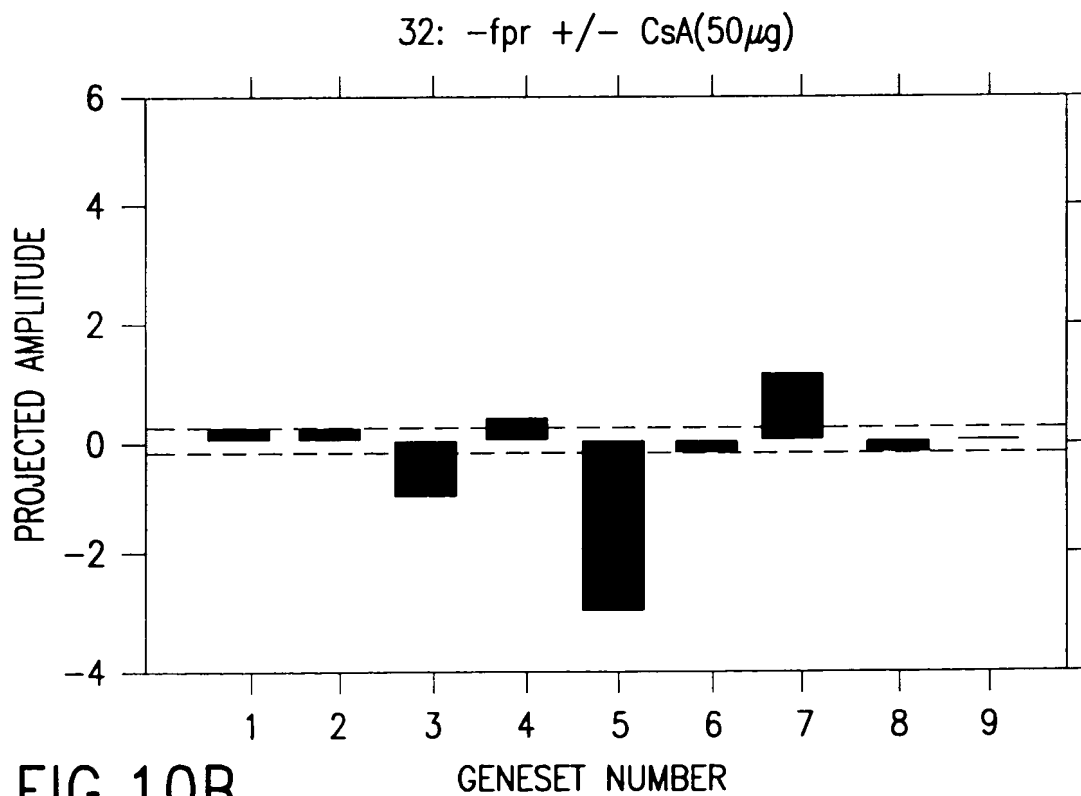
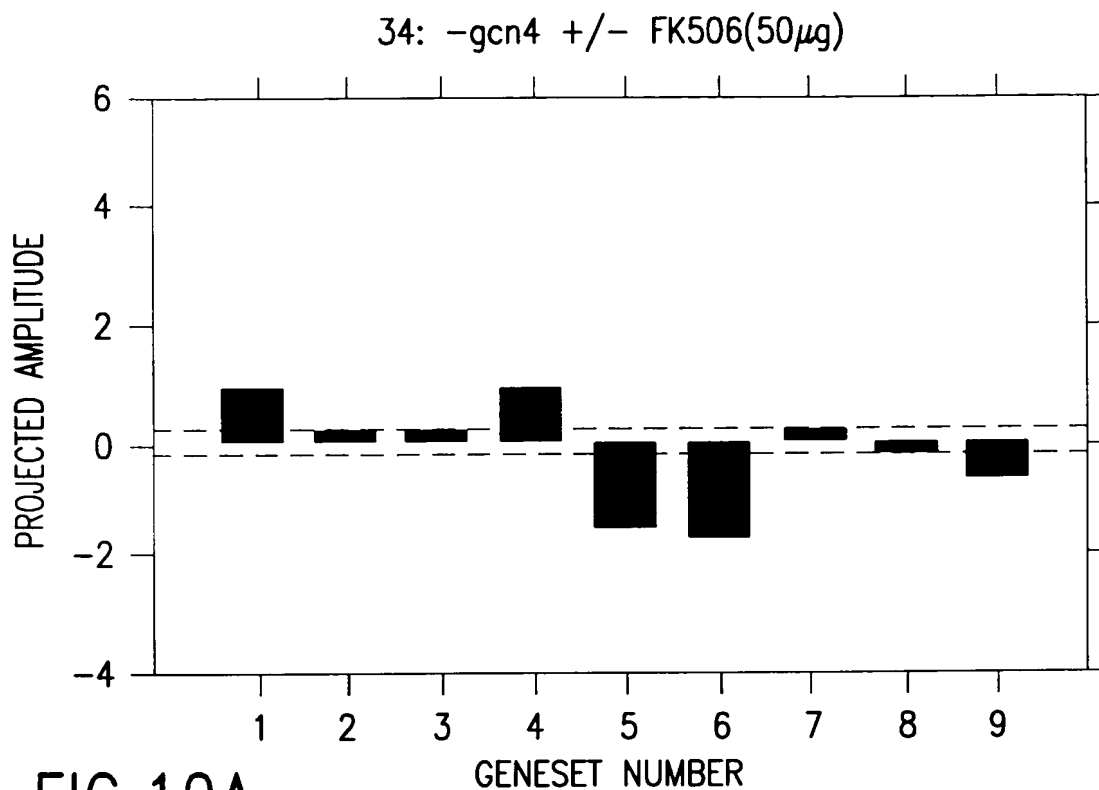
Data Input and Processing:

- PERTURBATION EXPERIMENTS** (901) provide **INPUT** to the **PERTURBATION DATA TABLES** (902).
- PERTURBATION DATA TABLES** (902) undergo **CLUSTER ANALYSIS** (903) to feed into the **GENESET DEFINITION (BASIS VECTOR) DATA TABLES** (904).
- BIOLOGICAL PATHWAY DATA TABLES** (905) provide **REFINING GENESETS** (906) to the **GENESET DEFINITION** (904).
- The **GENESET DEFINITION** (904) provides **REFINING BIOLOGICAL PATHWAY** (907) feedback to the **BIOLOGICAL PATHWAY DATA TABLES** (905).
- The **GENESET DEFINITION** (904) outputs a **BASIS VECTOR** (909) to the **PROJECTING** module (910).
- The **PROJECTING** module (910) sends data back to the **PERTURBATION DATA TABLES** (902) via connection 914.

User Interaction and Output:

- The **PROJECTING** module (910) sends data to the **EXPRESSION PROFILE** (911) via connection 913.
- The **EXPRESSION PROFILE** (911) sends data back to the **PROJECTING** module (910) via connection 911.
- The **PROJECTING** module (910) outputs the **PROJECTED EXPRESSION PROFILE** (912) via connection 912.
- The **PROJECTED EXPRESSION PROFILE** (912) is managed by the **DATABASE MANAGEMENT SYSTEM** (908) via connection 908.
- The **DATABASE MANAGEMENT SYSTEM** (908) sends data back to the **EXPRESSION PROFILE** (911) via connection 913.





PROJECTED	FILE	FILE
BY	CLASS	SUBCLASS
REVIEW		

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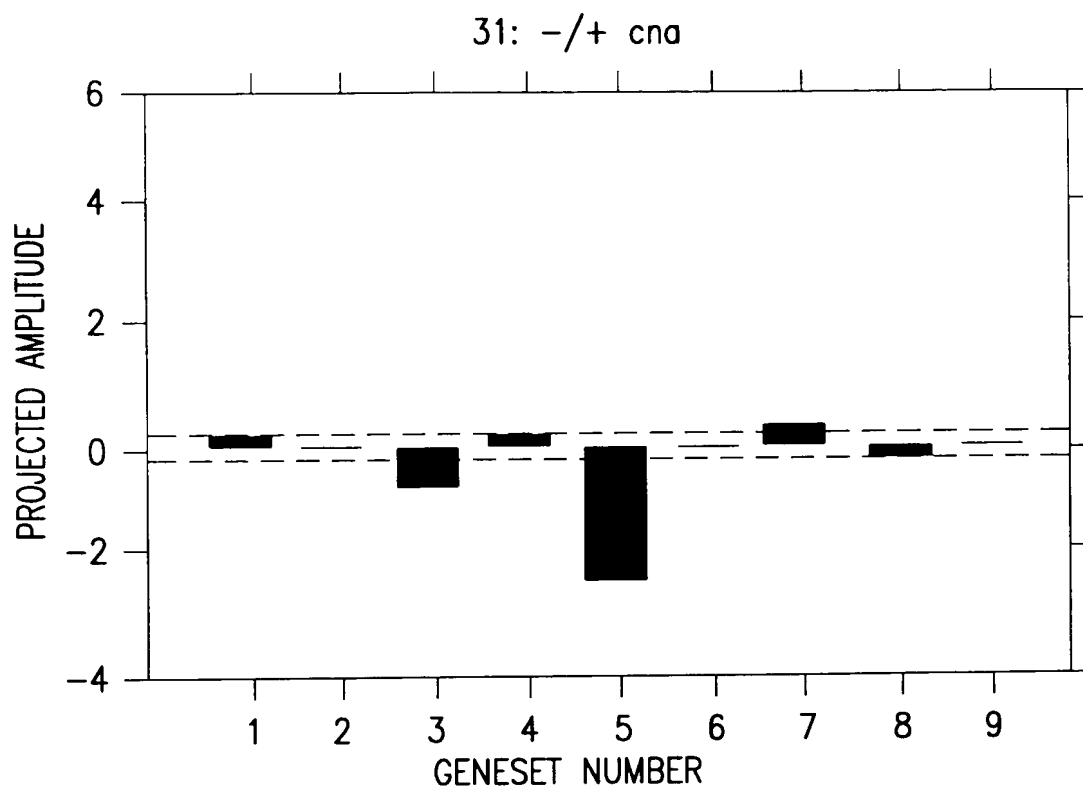


FIG.10C

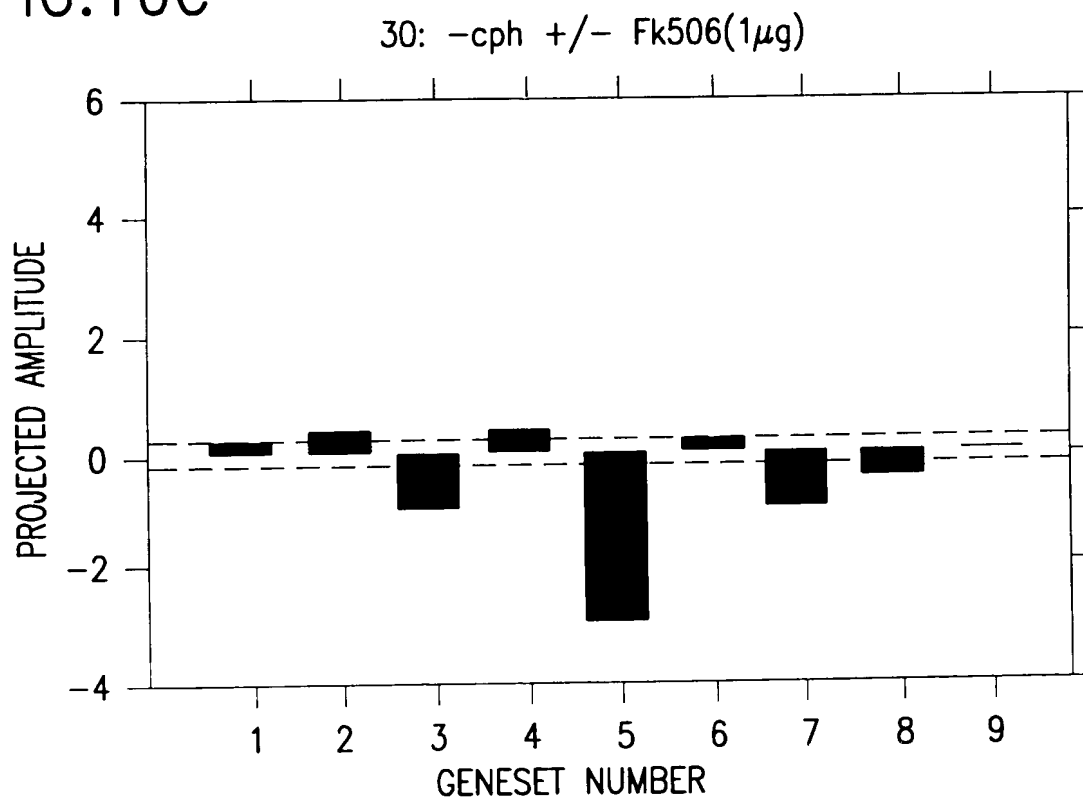


FIG.10D

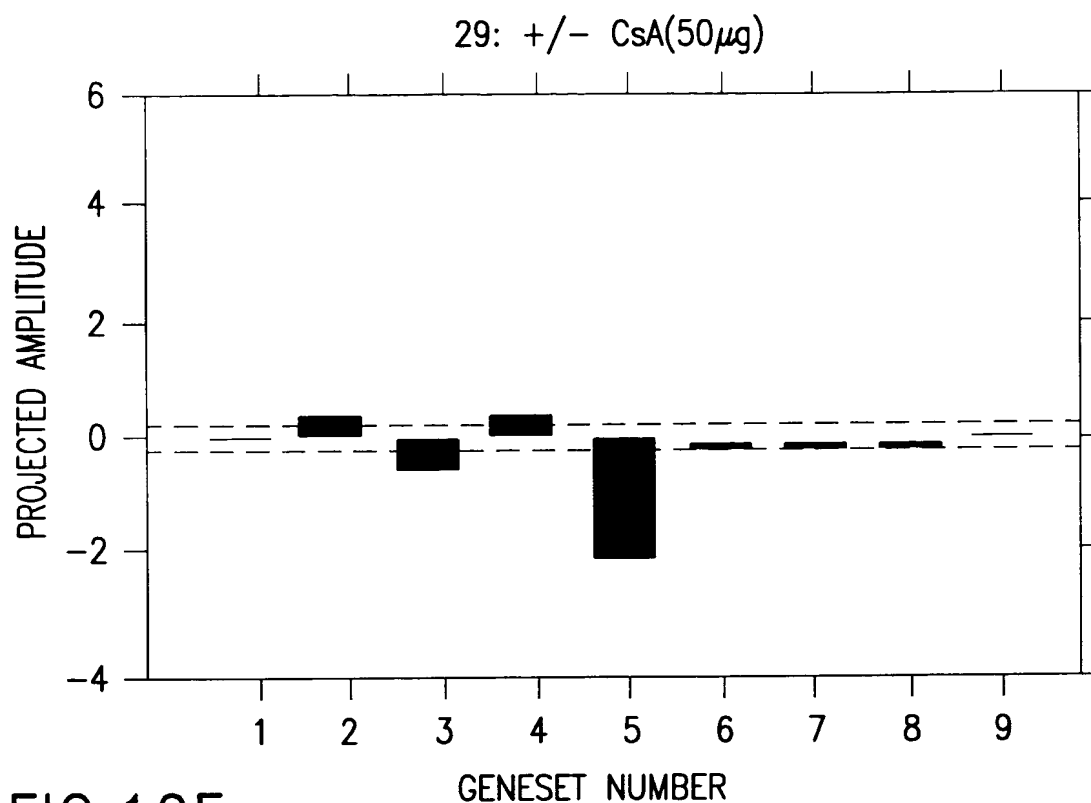


FIG.10E

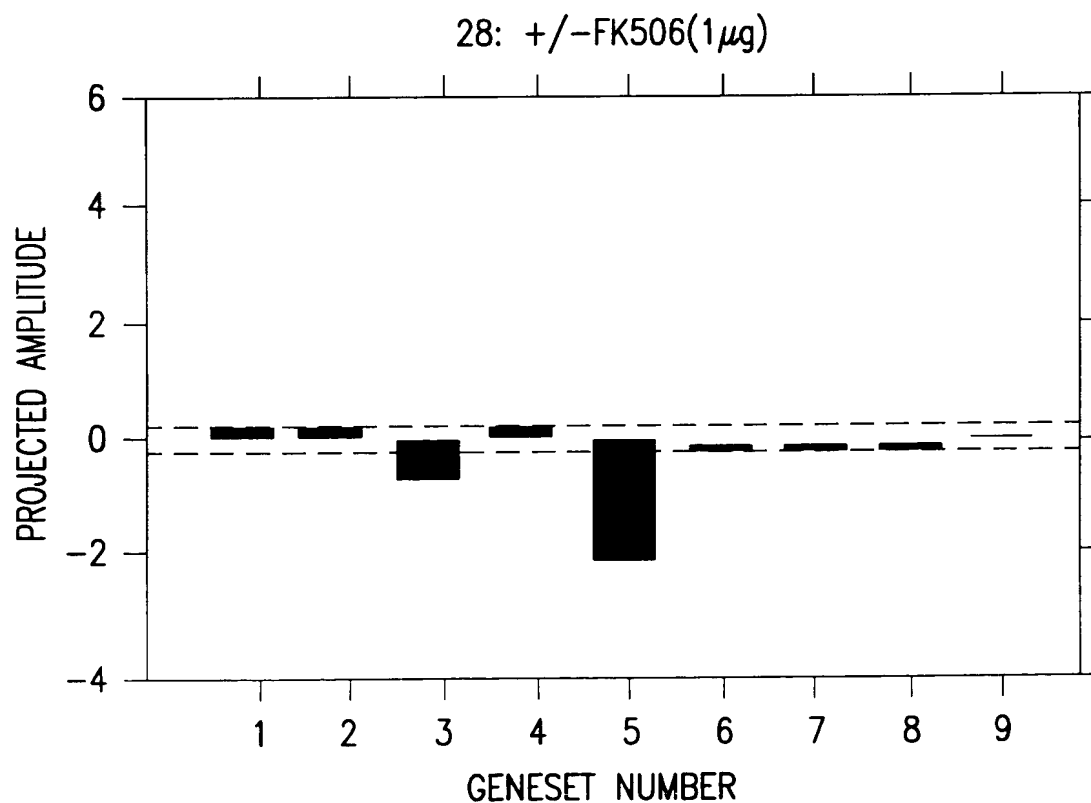


FIG.10F

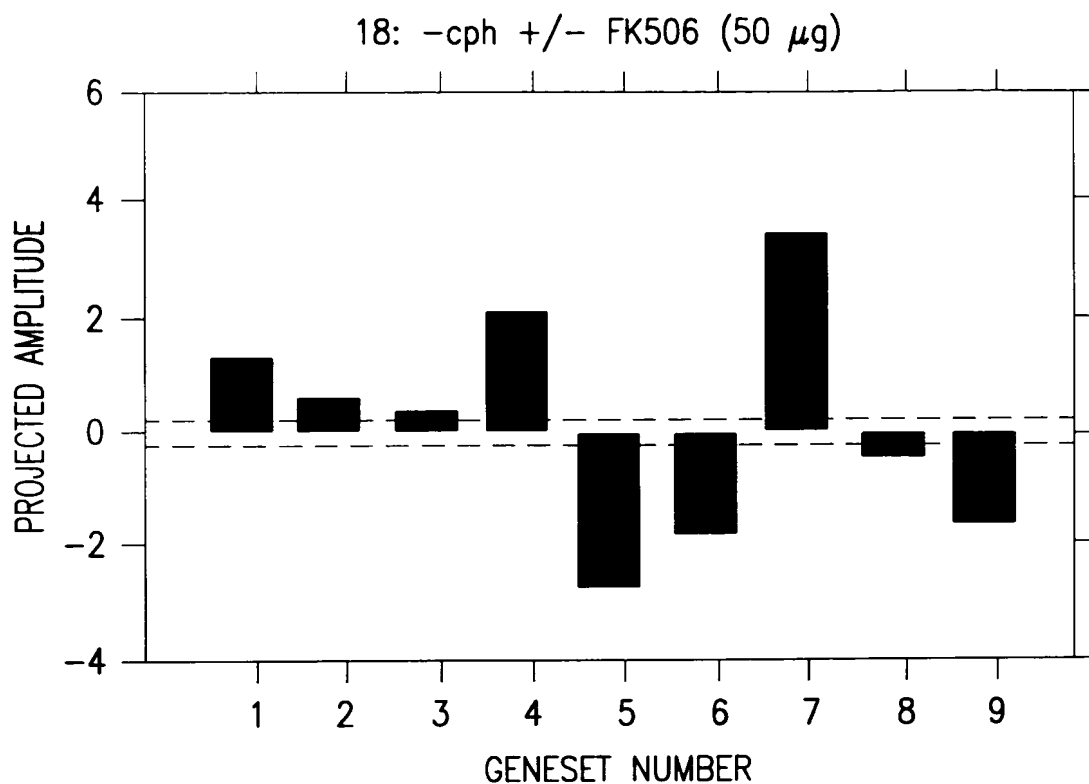


FIG.10G

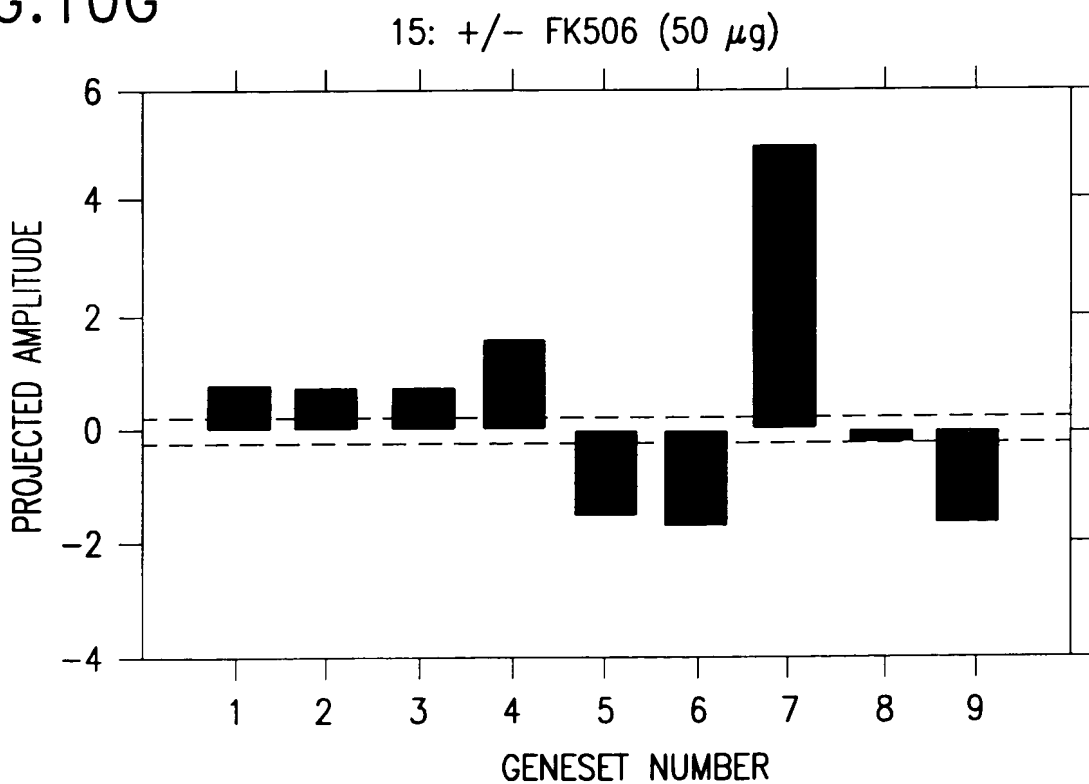


FIG.10H

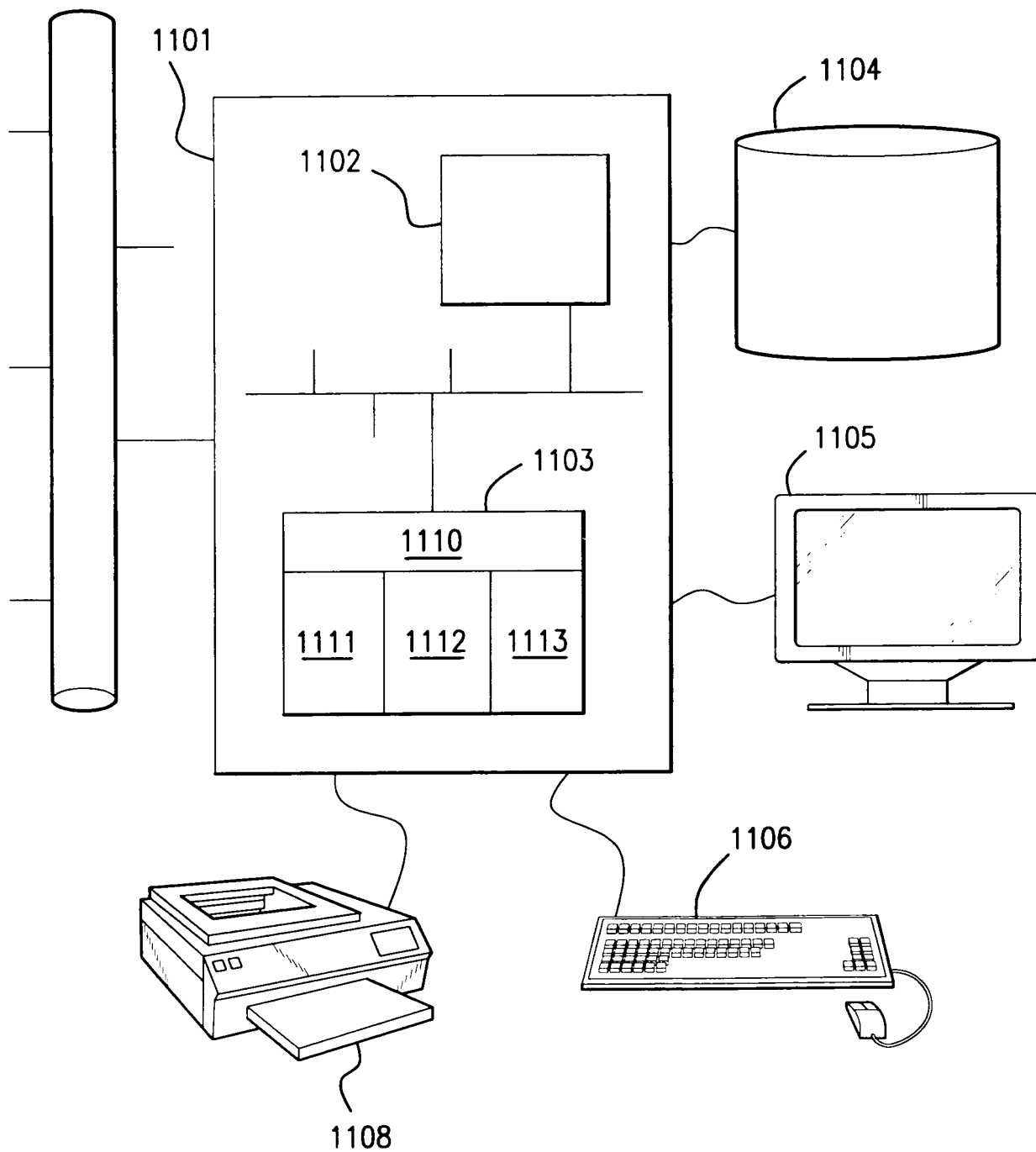


FIG.11